ABSTRACT

A microcavity forming device is provided for making microcavities in a tungsten wire. The microcavity forming device includes a source of particles; a housing for receiving a heated tungsten wire; and a plurality of jet nozzles disposed in the housing for spraying the particles toward the heated tungsten wire. The particles are 0.35 – 0.75 micron in diameter. The heated tungsten wire is received in the housing and the jet nozzles spray the particles toward the tungsten wire to form the microcavities in the tungsten wire.